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Optical measurement that is optimum for improving spatial resolution is accomplished by making it possible to estimate a physical quantity of an object substance to be measured at any point on a subject. When any position to be evaluated, in an image shown in a window (2), is pointed and selected using a mouse pointer (7), the value of the concentration or its change of the object substance at the point is displayed in the display area (8) of a window (3). The drawing represents an example in which one position is specified and there are two object substances to be measured. The value of the concentration or its change of each object substance to be measured is separately displayed.